SANTA CRUZ BIOTECHNOLOGY, INC.

ZNF382 (K-14): sc-160028

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Zinc finger proteins contain DNA-binding domains and have a wide variety of functions, most of which encompass some form of transcriptional activation or repression. ZNF385A (zinc finger matrin-type protein 385A), also known as HZF (hematopoietic zinc finger protein), RZF (retinal zinc finger protein) or ZNF385, is a 366 amino acid protein that contains 3 matrin-type zinc fingers. The matrin-type zinc finger, which is very similar in structure to the classical DNA-binding C_2H_2 zinc finger, was first identified in the protein matrin-3. The matrin-type zinc finger has also been identified in several spliceosome RNA-binding proteins, suggesting a role in pre-mRNA binding. ZNF385A is expressed predominantly in the retina and is localized to the nucleus as well as the cytoplasm. Two isoforms of ZNF385A exists due to alternative splicing events.

REFERENCES

1. Thiesen, H.J. 1990. Multiple genes encoding zinc finger domains are expressed in human T cells. New Biol. 2: 363-374.
2. Abrink, M., et al. 1995. Isolation of cDNA clones for 42 different Krüppel-related zinc finger proteins expressed in the human monoblast cell line U-937. DNA Cell Biol. 14: 125-136.
3. Gebelein, B., et al. 1998. KRAB-independent suppression of neoplastic cell growth by the novel zinc finger transcription factor KS1. J. Clin. Invest. 102: 1911-1919.
4. Gebelein, B., et al. 2001. Sequence-specific transcriptional repression by KS1, a multiple-zinc-finger-Krüppel-associated box protein. Mol. Cell. Biol. 21: 928-939.
5. Luo, K., et al. 2002. Expression of a novel Krüpple-like zinc-finger gene, ZNF382, in human heart. Biochem. Biophys. Res. Commun. 299: 606-612.
6. Urrutia, R. 2003. KRAB-containing zinc-finger repressor proteins. Genome Biol. 4: 231.
7. Tian, C.Y., et al. 2006. Progress in the study of KRAB zinc finger protein. Yi Chuan 28: 1451-1456.
8. Liu, J., et al. 2008. Context-dependent DNA recognition code for C_2H_2 zinc-finger transcription factors. Bioinformatics 24: 1850-1857.

CHROMOSOMAL LOCATION

Genetic locus: ZNF382 (human) mapping to 19q13.12.

SOURCE

ZNF382 (K-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ZNF382 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-160028 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ZNF382 (K-14) is recommended for detection of ZNF382 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other ZNF family members.

Suitable for use as control antibody for ZNF382 siRNA (h): sc-97183, ZNF382 shRNA Plasmid (h): sc-97183-SH and ZNF382 shRNA (h) Lentiviral Particles: sc-97183-V.

Molecular Weight (predicted) of ZNF382: 64 kDa.

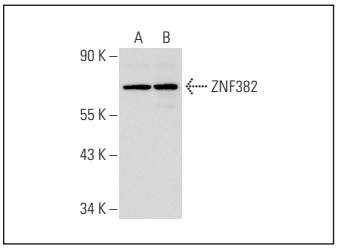
Molecular Weight (observed) of ZNF382: 58 kDa.

Positive Control: Jurkat cell lysate: sc-2204, HEK293 whole cell lysate: sc-45136 or HeLa nuclear extract: sc-2120.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



ZNF382 (K-14): sc-160028. Western blot analysis of ZNF382 expression in HEK293 whole cell lysate (**A**) and HeLa nuclear extract (**B**).

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.